



MEMORANDUM

Missouri Department of Transportation Project Delivery Southwest District

TO: Eric Schroeter -de
CC: Jason Vanderfeltz -de
FROM: Patrick Whitaker
Transportation Project Designer
DATE: December 5, 2013
SUBJECT: Southwest District – Design
Rte. 160, Greene County
Signal and Intersection Improvements at Route 160 and Plainview Rd.
Job No. J7S0690
Public Interest Finding – Uninterruptible Power Supply

I do hereby certify that in accordance with the requirements of 23 CFR 635.411(a)(2), this patented or proprietary item is essential for synchronization with existing highway facilities.



State Design Engineer

With reference to the subject project, we are requesting approval of a finding in the public interest to use the Alpha FXM 1100 Uninterruptible Power Supply on this project.

There are currently no uninterruptible power supply systems listed on the Approved Products List of Signal and Lighting Materials. Several years ago the District's signal staff installed the Alpha UPS System in the eastern half of the district (old District 8). The Alpha UPS System was also chosen by several other districts. The western half of the district (old District 7) chose to install the Sensata Technologies Dimensions™ Battery Backup 24M11-WBE uninterruptible power supply system.

We are the only District that is using two different brands of uninterruptible power supplies and we want to continue to use the Sensata system in the western part of the District and the Alpha system in the eastern part of the District exclusively. Our signal shop staff is split with about half of them working at Joplin (covering the western half of the District) and the other half working at Springfield (covering the eastern half of the District). Since this project is here in Springfield we want the Alpha system installed. We will also be requesting the Alpha system be installed on other projects that involve signal installations that are currently being designed in the Springfield area (US 65 at Battlefield DDI, South Glenstone 6-laning).

This project is scheduled for a January 24, 2014 letting to upgrade traffic signals and improve the intersection at Route 160 and Plainview Rd. in Springfield.

To prevent a traffic signal power failure from disrupting traffic progression along the corridor, we have determined that an uninterruptible power supply will be required at this location. Other intersections in the eastern half of the Southwest District currently utilize the Alpha FXM 1100 UPS System. In order to minimize parts inventory and simplify staff training, we are requesting approval to use this proprietary product on the subject project.